IN THE CLAIMS

Please amend the claims as follows:

Claims 1-26 (canceled)

27.   (currently amended) A computer program product for permitting an oscilloscope to independently analyze a signal input into said oscilloscope, said oscilloscope including a plurality of triggering modes, said computer program product comprising:

storage means;

instruction means embodied within said storage means for specifying a plurality of trigger parameters for each of said plurality of triggering modes; and

instruction means embodied within said storage means for thereafter, said oscilloscope automatically analyzing said input signal independently from any user input sequentially utilizing each of said plurality of triggering modes and said plurality of trigger parameters specified for each of said plurality of triggering modes[[.]]; including:

instruction means embodied within said means for determining if said oscilloscope triggered on one of a plurality of undesired waveforms; and

instruction means embodied within said storage means responsive to a determination that said oscilloscope triggered on one of said plurality of undesired waveforms, for storing said one of said plurality of undesired waveforms.

28.   (canceled)

29.   (currently amended) The computer program product according to claim [[28]]27, further comprising instruction means embodied within said storage means for storing a plurality of trigger parameters associated with one of said plurality of triggering modes utilized when said oscilloscope triggered on said one of said plurality of undesired waveforms.

30. (original) The computer program product according to claim 29, wherein said instruction means for automatically analyzing further comprises:

instruction means embodied within said storage means for analyzing said input signal utilizing a first of said plurality of triggering modes and a first plurality of trigger parameters associated with said first of said plurality of triggering modes; and

instruction means embodied within said storage means for thereafter, automatically continuing said analyzing said input signal independently from any user input utilizing a second of said plurality of triggering modes and a second

plurality of trigger parameters associated with said second of said plurality of triggering modes.

31. (currently amended) The computer program product according to claim 30, further comprising:

instruction means embodied within said storage means for establishing said first plurality of trigger parameters including a start voltage level, a stop voltage level, a voltage step, and a sweep rate; and

instruction means embodied within said storage means for said oscilloscope attempting to trigger on any of said plurality of undesired waveforms utilizing said a current voltage equal to said start voltage level and utilizing said sweep rate.

32. (original) The computer program product according to claim 31, further comprising:

instruction means embodied within said storage means for while said oscilloscope is attempting to trigger, determining an elapsed time;

instruction means embodied within said storage means for determining if said elapsed time is greater than said sweep rate;

instruction means embodied within said storage means responsive to said elapsed time being greater than said sweep rate, for incrementing said current voltage by said voltage step; and

instruction means embodied within said storage means for said oscilloscope attempting to trigger on any of said plurality of undesired waveforms utilizing said current voltage and said sweep rate.

33. (currently amended) The computer program product according to claim 32, further comprising instruction means embodied within said storage means responsive to said current voltage being equal to said stop voltage level, for automatically continuing said analyzing said input signal utilizing said second of said plurality of triggering modes and said second plurality of trigger parameters associated with said second of said plurality of triggering modes.

34. (original) The computer program product according to claim 33, further comprising:

instruction means embodied within said storage means for prioritizing said plurality of trigger modes; and

instruction means embodied within said storage means for establishing a highest priority of said plurality of trigger modes as said first of said plurality of said triggering modes.

35. (original) The computer program product according to claim 34, further comprising instruction means embodied within said storage means for establishing a next highest priority of said plurality of trigger modes as said second of said plurality of said triggering modes.

36. (original) The computer program product according to claim 36, wherein said plurality of triggering modes includes an edge triggering mode.

37. (original) The computer program product according to claim 36, wherein said plurality of triggering modes includes a slew triggering mode.

38. (original) The computer program product according to claim 37, wherein said plurality of triggering modes includes a runt triggering mode.

39. (original) The computer program product according to claim 38, wherein said plurality of triggering modes includes a glitch triggering mode.

40. (original) The computer program product according to claim 39, wherein said storage means is a random access memory.

41. (new) An oscilloscope, comprising:

a plurality of triggering modes;

means specifying a plurality of trigger parameters for each of said plurality of triggering modes; and

means for automatically analyzing an input signal independently from any user input sequentially utilizing each of said plurality of triggering modes and said plurality of trigger parameters specified for each of said plurality of triggering modes, including:

means for determining if said oscilloscope triggered on one of a plurality of undesired waveforms; and

responsive to a determination that said oscilloscope triggered on one of said plurality of undesired waveforms, means for storing said one of said plurality of undesired waveforms.

42. (new) The oscilloscope according to claim 41, further comprising means for storing a plurality of trigger parameters associated with one of said plurality of triggering modes utilized when said oscilloscope triggered on said one of said plurality of undesired waveforms.

43. (new) The oscilloscope according to claim 41, wherein said means for automatically analyzing further comprises:

means for analyzing said input signal utilizing a first of said plurality of triggering modes and a first plurality of trigger parameters associated with said first of said plurality of triggering modes; and

means for automatically continuing said analyzing said input signal independently from any user input utilizing a second of said plurality of triggering modes and a second plurality of trigger parameters associated with said second of said plurality of triggering modes.

44. (new) The oscilloscope according to claim 43, further comprising:

means for establishing said first plurality of trigger parameters including a start voltage level, a stop voltage level, a voltage step, and a sweep rate; and

means for said oscilloscope attempting to trigger on any of said plurality of undesired waveforms utilizing a current voltage equal to said start voltage level and utilizing said sweep rate.

45. (new) The oscilloscope according to claim 44, further comprising:

means for determining, while said oscilloscope is attempting to trigger, an elapsed time;

means for determining if said elapsed time is greater than said sweep rate;

means responsive to said elapsed time being greater than said sweep rate, for incrementing said current voltage by said voltage step; and

means for said oscilloscope attempting to trigger on any of said plurality of undesired waveforms utilizing said current voltage and said sweep rate.

46. (new) The oscilloscope according to claim 45, further comprising means responsive to said current voltage being equal to said stop voltage, for automatically continuing said analyzing said input signal utilizing a second of said plurality of triggering modes and said second plurality of trigger parameters associated with said second of said plurality of triggering modes.

47. (new) The oscilloscope according to claim 46, further comprising:

means for prioritizing said plurality of trigger modes; and

means for establishing a highest priority of said plurality of trigger modes as a first of said plurality of said triggering modes.

48. (new) The oscilloscope according to claim 47, further comprising means for establishing a next highest priority of said plurality of trigger modes as said second of said plurality of said triggering modes.

49. (new) The oscilloscope according to claim 41, wherein said plurality of triggering modes includes an edge triggering mode.

50. (new) The oscilloscope according to claim 41, wherein said plurality of triggering modes includes a slew triggering mode.

51. (new) The oscilloscope according to claim 41, wherein said plurality of triggering modes includes a runt triggering mode.

52. (new) The oscilloscope according to claim 41, wherein said plurality of triggering modes includes a glitch triggering mode.